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PCT/KR2005/002586

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 05FLWW097	<b>FOR FURTHER ACTION</b> <span style="float: right;">see Form PCT/ISA/220 as well as, where applicable, item 5 below</span>	
International application No <b>PCT/KR2005/002586</b>	International filing date ( <i>day/month/year</i> ) 09 AUGUST 2005 (09.08.2005)	(Earliest) Priority Date ( <i>day/month/year</i> ) 16 AUGUST 2004 (16 08 2004)
Applicant  LG ELECTRONICS, INC. et al		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18 A copy is being transmitted to the International Bureau

This international search report consists of a total of 3 sheets

☐ It is also accompanied by a copy of each prior art document cited in this report

**1 Basis of the report**

a With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23 I(b))

b ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No I

2 ☐ **Certain claims were found unsearchable** (See Box No II)

3 ☐ **Unity of invention is lacking** (See Box No III)

4 With regard to the **title**,

☒ the text is approved as submitted by the applicant

☐ the text has been established by this Authority to read as follows

5 With regard to the **abstract**,

☒ the text is approved as submitted by the applicant

☐ the text has been established according to Rule 38 2(b), by this Authority as it appears in Box No IV The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6 With regard to the **drawings**,

a the figure of the **drawings** to be published with the abstract is Figure No 4

☒ as suggested by the applicant

☐ because the applicant failed to suggest a figure

☐ because this figure better characterizes the invention

b ☐ none of the figure is to be published with the abstract

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2005/002586

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC7 A47L 15/42

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A47L 15/42, A47B 81/06, A47J 37/12, A61H 33/12, BOIF 3/04, B05B 1/00, B08B 3/00,

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KR as above

Electronic database consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6349731 A (DEMTRJUS J. SCHAAF et al.) 26 February 2002 See the whole document	1-20
Y	US 6427984 A (PATRICK T. MULVANEY et al.) 6 August 2002 See the whole document	1-20
Y	US 4184500 A (LEROY J. HERBST) 22 January 1980 See the whole document	1-20
A	US 44871 17 A (JACKQUES L. J. COLLEY et al.) 11 December 1984 See the whole document	1-20
A	US 5744213 A (THOMAS E. NELSON) 28 April 1998 See the whole document	1-20
A	KR 1997-353 A (DOBBS, DOUGLAS B. et al.) 21 January 1997 See the whole document	1-20
A	US 5859952 A (LAWRENCE LEVINE et al.) 12 January 1999 See the whole document	1-20

**D**

Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents'	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

17 NOVEMBER 2005 (17.11.2005)

Date of mailing of the international search report

17 NOVEMBER 2005 (17.11.2005)

Name and mailing address of the ISA/KR



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# INTERNATIONAL SEARCH REPORT

International application No

PCT/KR2005/002586

## Box No. 1 Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1 With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of

a type of material

☐ a sequence listing

☐ table(s) related to the sequence listing

b format of material

☐ on paper

☐ in electronic form

c time of filing/furnishing

☐ contained in the international application as filed

☐ filed together with the international application in electronic form

☐ furnished subsequently to this Authority for the purposes of search

2 ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished

3 Additional comments